All amounts are calculated in domestic currency.

Purchase Order Receipt Listing

Tuesday, February 14, 2017 4:09:59 PM

All Vendors PO ID PO35245 All Receipt Dates All Line Item Types All Item ID/GL/WOs All Rec. Employees All Currencies Grouped by Vendor ID

	0.0000 0 0.0000 0.0000 0 0.0000 0.0000 0 \$0.00	00 0 0 0		
	48.0000	48.0000	24.0000	48.0000
80.0000 PLOU01	6.4			
80.00	2/17/2017	2/17/2017 48.0000 2/17/2017 24.0000	2/17/2017 48.0000 2/17/2017 24.0000 20.00000	2/17/2017 48.0000 2/17/2017 2/17/2017 20.0000 20.0000
\ \ \ \ \	.05 f	.05 f f .12 f	.05 f f f f f f f f f	.05 f
X 06/: agn I do 5/00 X	/ .049W m136846 M6061T6T0.375W.05 f 8 6061-T6 RD Tube f	M6061T6T0.375W.05 f M6061T6T0.375W.05 f 8 6061-T6 RD Tube f 375 x.058W m136846 M6061T6T0.625W.12 f 5	M6061TGT0.375W.05 f M6061TGT0.375W.05 f M6061TGT0.625W.12 f M6061TGT0.625W.12 f M6061TGT0.625W.12 f M304TWBING.375 x M304TWBING.375 x M136846 M136846	.049W m136846 M6061TGT0.375W.05 8 6061-T6 RD Tube .375 x.058W m136846 M6061TGT0.625W.12 5 6061-T6 RD Tube 6061-T6 RD Tube 0.625 X.125W m136846 M304TR0.375W.035 M304TR0.375W.065 M304TR0.375W.065 M304TR0.375W.065 M304RD Tube .375 x .065W m136846
	4 Š	4 % % %	4 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	4 % 5 % L % 8 %

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req		Project ID Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name PO35245 10	ndor Nam 10		VU-TWM001 TW Metals M4130NT1.000W.12 f	letals 2 f	7/17/2017	2/17/2017 2/14/2017	24.0000		0.0000	0	\$0.00
USD	Š	7	4130 RD Tube 1.00 x f .120wall m136846	y ×	20.0000	20.0000 PLOU01			0.0000	0	
	N _o		71401-45 PROCUREMENT QUALITY CLAUSES m136846		2/17/2017	2/14/2017 PLOU01	1.0000		0.0000	0 0	\$0.00
								ı	Total Received Quantity:	lantity:	257.0000
								Total	Total Qty to Inspect (PO U/M):) U/M):	0.0000
									Total Reject Quantity:	nantity:	0.0000
									Total Receipt Value:	Value:	\$0.00
								Tot	Total Balance Due Quantity:	nantity:	0.0000





Packing Slip

ORDER NO.: 60625241 FROM: CRAN PAGE 1

CUST NUMBER: 1203820 NET WGT:

SOLD TO:

81.486 REQ.DATE: 02/15/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

TERMS:

DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKESBURY ON

SALESPERSON: DONNA SMALLEY

CN K6A 1K7

VIA:

02/10/17

F.O.B.:

CANADA

NET 30 DAYS SHIPPING POINT

FREIGHT:

SHIP BY:

COMMON CARRIER

CUST ORD NO.:

PO35245

RELEASE NO.:

PREPAID

RECEIVING PHONE:

LINE ITEM DESCRIPTION

0001 36506 SMLS CD 304/L A269 1/2 OD X .049 WAV

WIDTH

LENGTH 20' MI

CLN#

ORD QTY 20.000 FT

INVOICE QTY SHIPPED QTY 20.000 FT 20.000 F 20.000 FT 🔾

4.718

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00 PO: 49339077 (T: YX1506712 PC: 1 CUSTOMER QTY: 20.000 UOM FT

MLT: CHINA

MFG:CHINA

SLB/CL:9-116

0002 36860 SMLS CD 304/L A269 3/4 OD X .049 WA

ORD QTY INVOICE QTY SHIPPED QTY 80.000 FT 80.000 FT 80.000 FT

WT 29.338

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00

MLT: CHINA

PO:49342471 HT:YX1501783 PC: 4 CUSTOMER QTY: 80.000 UOM FT

20% CL

SLB/CL:11-63

0003 41952 D6061-T6 3/8 OD X .058 WAL

MFG:CHINA

CLN#

ORD QTY 48.000 FT INVOICE QTY 48.000 FT

SHIPPED OTY 48.000 FT

WT 3.254 PCS

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99

Export License: NLR Expiration Date: 0/00/00

PO: 49361230 HT:1180968 PC: 4 CUSTOMER QTY:

48.000 UOM FT

MLT:UNITED STATES MFG:UNITED STATES SLB/CL:438268

1001

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE THANK YOU FOR THIS ORDER PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.

http://www.twmetals.com/invoice-terms.html



DART AEROSPACE LTD

1270 ABERDEEN ST



Packing Slip

ORDER NO.: 60625241 FROM: CRAN PAGE 2

SOLD TO:

CUST NUMBER: 1203820 NET WGT:

81.486 REQ.DATE: 02/15/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

CANADA

TERMS: F.O.B.:

HAWKESBURY ON

SALESPERSON: DONNA SMALLEY NET 30 DAYS

CN K6A 1K7

SHIPPING POINT CUST ORD NO.: PO35245

0004 42588 D6061-T6 5/8 OD X .125 WA

SHIP BY: 02/10/17
VIA: COMMON CA
FREIGHT: PREPAID COMMON CARRIER

FREIGHT:
RELEASE NO.:

LINE ITEM DESCRIPTION

RECEIVING PHONE: WIDTH

LENGTH

12/FT ML

CLN#

ORD QTY INVOICE QTY SHIPPED QTY 24.000 FT 24.000 FT

5.541

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00

PO:49360917 (HT:F002299760001 PC) 2 CUSTOMER QTY: 24.000 UOM FT MLT:UNITED STATES MFG:UNITED STATES SLB/CL/221973

0005 36225 SMLS CD 304/L A269 3/8 X .035 WA

CLN# ORD QTY INVOICE QTY SHIPPED QTY 20.000 FT 20.000 FT

WT 2.542

PCS

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999 g Export License: NLR Expiration Date: 0/00/00

PO:49354071 HT:YX1509583 PC: 1 CUSTOMER OFY: 20.000 UOM FT MLT: CHINA MFG: CHINA

SLB/CL:10-46

0006 36311 SMLS CD 304/L A269 3/8 OD X .065 WA

20' ML

20' MI

CLN# ORD QTY

ORD QTY INVOICE QTY SHIPPED QTY 20.000 FT 20.000 FT

4.303

PCS

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00 PO:49329273 HT:YX1410664 PC: 1 CUSTOMER QTY: 20.000 UOM FT MLT:CHINA MFG:CHINA SLB/CL:4-34

14024

THANK YOU FOR THIS ORDER PRODUCT REVIEW.

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL

http://www.twmetals.com/invoice-terms.html



DART AEROSPACE LTD

1270 ABERDEEN ST



Packing Slip

ORDER NO.: 60625241 FROM: CRAN PAGE 3

SOLD TO:

CANADA

CUST NUMBER: 1203820 NET WGT:

81.486 REQ.DATE: 02/15/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

TERMS: F.O.B.:

HAWKESBURY ON

SALESPERSON: DONNA SMALLEY

CN K6A 1K7

NET 30 DAYS

SHIPPING POINT CUST ORD NO.: PO35245

SHIP BY: 02/10/17
VIA: COMMON CA:
FREIGHT: PREPAID COMMON CARRIER

PREPAID

RELEASE NO.:

LINE ITEM DESCRIPTION

RECEIVING PHONE:

WIDTH 0007 31954 SMLS CD 4130 RD 6736 1/2 X .049

LENGTH

17/24 FT

CLN# ORD QTY INVOICE QTY SHIPPED QTY 20.000 FT 20.000 FT 20.000 FT

20.000 FT,

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 9A991.d

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00 PO:49355846 HT:251772 PC: 1 CUSTOMER QTY: 20.000 UOM FT MLT:GERMANY SLB/CL:1627804

0008 33364 SMLS CD 4130 RD 6736 1 X .120

CLN# ORD QTY INVOICE QTY SHIPPED QTY 20.000 FT 24.000 FT 24.000 24.000 FT

PCS

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00 PO:49354259 HT:MM16101444 PC: 1 CUSTOMER QTY: 24.000 UOM FT MLT:UNITED STATES MFG:UNITED STATES SLB/CL:143275

BROKERS KUEHNE AND NAGEL LTD

AREA TYPE OF PKG B CARTON

----- PACK INFO ----PKGS GRS WEIGHT WIDTH 1.000 86.000 1.000 86.000

LENGTH HGHT 24.0000

1.000 86.000

BY: CI RT 000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED

DATE FILLED

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE THANK YOU FOR THIS ORDER PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.

http://www.twmetals.com/invoice-terms.html





Packing Slip

ORDER NO.: 60625241

FROM: CRAN

PAGE

CUST NUMBER: 1203820 NET WGT:

SOLD TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON

CANADA

CN K6A 1K7

81.486 REQ.DATE: 02/15/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

SALESPERSON:

TERMS:

F.O.B.: CUST ORD NO.:

VIA:

FREIGHT:

RELEASE NO.: RECEIVING PHONE:

DONNA SMALLEY NET 30 DAYS

SHIPPING POINT P035245

COMMON CARRIER

PREPAID

SHIP BY:

02/10/17

27 ENGLEHARD DRIVE

MONROE TWP

NJ 08831

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk

Date: 2/10/17

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

MILL TEST REPORT

Purchaser.: TW MET	ALS-Carol S	itream				THE O					
Contract No.: TWM			-		_		No.: 15-11-1				
The residence of the latest terminal te							ue.: 2015.11.7				
Commodity: Stainless	Steel Seaml	ess Tubes	Spec	ificatio	ns: AS	TM A213-	-15/ASME SA	213	-13/ASTM	A269-14e	LEAW
Process: Cold Drawn				_			ondition: OD				
Steel Grade	Heat	Number	Nun			Dimensi				Quantity	*
TP304/TP304L	YXI	506-712	9-1		(1/	2" x 0.049	0" x 20'		Pieces 1000		Feet 0,000
		Cl	emical	Compo	sition	by Weigh	1(%)				
Element	C	Mn	P		S	Si	Cr		Ni	Mo	Co
Requirements	≤0,035	≤2.00	≤0.	045 ≤	0.030	≤1.00	18.00-20.00	8.	.00-12.00	-	-
Ladle Analysis	0.013	0.65	0.03	12 0	.002	0.32	18.28		8.05	-	-
Product Analysis	0.017	0.61	0.03	3 0	.002	0.28	18.31		8.55	-	-
			M	echanic	al Pro	perties					
Test Item Elongation (% in 2"			")		Tensile	Strength	(PSI)			Strength (I	PSI)
Requirements		≥35				≥75,000				≥30,000	
Test Results		63/64				,000/92,00	00			000/37,000)
Test Item		n of Area (%)	Hardness		C	old Bend Test	Flaring Test	F	attening Test	Flange	P.M,I
Requirements		-	HF	B≤80		-	22%	e=0.09		Test	Test
Test Results		•	7	6/78		-	Passed	-	Passed	-	OV
Test Item	Eddy Cu	rrent Test		iderwai		trasonic Test	Intergranul Corrosion T	lar M		- OK oscopic Inspection	
lequirements	ASTM	E 426		-		-	ASTM A262	1636			агалсе
est Results	Pass			-		-	OK	-	OK)K

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA



We hereby certify that this report is true and correct.

James Shi / Manager **Quality Control Department**

Shanghai Pufa Stainless Steel Pipe Factory No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China

MILL TEST REPORT

Purchaser.: TW MET.	ALS-Cranbu	ŕý			Cert	ificate l	No.: 16-1-13				
Contract No.: TWM F	O.No.: M49	342471			Date	of Issu	e.: 2016.1.5				
Commodity: Stainless	Steel Seaml	ess Tubes	Specif	ications:	ASTM	A213-1	Sc/ASME SA	213	15/ASTM	A269-15a	EAW
Process: Cold Drawn			•		Deliv	ery Co	ndition: OD	Polis	hed to 240	Grit	
Steel Grade	Heat	Number	Lo	t		imensio		,	C	uantity	
Steel Grade	Heat	Number	Numi	oer	υ	imensio	ons		Pieces]	reet
TP304/TP304L	YX1	501-783	11-6	3	3/4" :	x 0.049	" x 20'		250	5	,000
		Che	emical (Composit	ion by	Weigh	t (%)				
Element	С	Mn	P	S		Si	Cr		Ni	Mo	Co
Requirements	≤0.035	€2.00	≤0.0	45 ≤0.0	030 =	€1.00	18.00-20.00	8.	00-12.00	-	-
Ladle Analysis	0.012	0.68	0.03	1 0.00)1	0.37	18.35		8.05	-	-
Product Analysis	0.019	0.70	0.03	3 0.00)2	0.39	18.37	,	8.31	-	-
			Ме	chanical	Proper	rties					
Test Item	Elong	')	Te		trength Rm	(PSI)			trength (I	PSI)	
Requirements		⁻ ≥35				75,000				30,000	
Test Results		65/66				00/90,00	00			00/35,000	
Test Item		on of Area (%)	Hardness			Bend est	Flaring Test	Fl	attening Test	Flange Test	P.M.I Test
Requirements		-	HR	HRB≤80		-	22%	e=0.09			-
Test Results		-	7	5/77		•	Passed	,	Passed	-	OK
Test Item	Eddy Cu	ırrent Test		nderwater ure Test		asonic 'est	Intergranu Corrosion	I Wiacr		oscopic Inspection	
Requirements	AST	M E 426		-		-	ASTM A26	2 E	End Cut	Appe	arance
Test Results	Pa	ssed		-		-	OK		OK	(OK

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA



By:

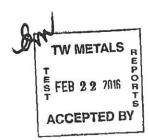
Jones GE.

We hereby certify that this report is true and correct.

James Shi / Manager Quality Control Department

Shanghai Pufa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China





PRECISION TUBE CO.

Control No: 2839

287 WISSAHICKON AVE. NORTH WALES PA 19454

CERTIFIED TEST REPORT

CUSTOMER	PURCHA	SE ORDER	NO.	CUST.	ORD.	NO.		PRECIS	TON	TUBE P/N		
		LINE 001			38268		\neg			0580006		
	O 235 CAI	METALS 5 TÜBEWAY ROL STREAM ITED STATE		188	,		IP:	TW METALS 235 TUBEWA CAROL STRE UNITED STA	AM,	IL 60188		
QUANTITY	ORD.	DESCRIF	TION				0	TY. SHIPPE	DT	DATE SHIPPED		
4008	FT	LENGTH - LGTH TOL SHAPE - R FINISH -	T6 S 4082F ASTM 12 FT +.1250 OUND STRAIGH 50 +.0	AMS-WW -B-210-1 IN0 T EXACT 0300	2 000 IN LENGTH 030			4188 F		12/21/16		
			ME	CHANICAL	L PROP	ERTI	ES	*				
SAMPLE #	ST	ENSILE RENGTH .S.I.)	STRE	ELD ENGTH S.I.)	IN 2	GATI(INCH (%)		ROCKWELI HARDNESS	- 1	AVERAGE GRAIN SIZE (MM.)		
1 44,103 37,550 20												
				DESTRUCT	IVE T	ESTS				E		
Comments: F	AR BAA (COMPLIES, I		A COMPLIE				IES		DEC-28'18 OR		
EDDY CURRE	ENT: PAS	SS										
			CH	EMICAL	NAME OF TAXABLE PARTY.	the second second second	PHIS					
ALLOY: 6	061	HEAT:			ABILITY TL VENI			968 874 - Kaiser	Alu	minum		
	SI	Fe Cu	Mn	Mg	Cr	Zn	Ti					
Min Max OTHER ELEMENT:	0.40 0.80 S: 0.05 MAX	0.15 0.70 0.40 EACH / 0.15 MA	0.15 X TOTAL	0.80 1.20	0.04	0.25	0.1	Rem. 5				

We hereby certify that the material has been manufactured and tested in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgement. During the manufacturing, testing and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device employing a single boundry containment. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2011/65/EU).

Melted and Manufactured in USA QMS Registered to ISO 9001: 2008

Art Onaitis
QA Manager

12/21/16

Page: 1 of



CERTIFIED TEST REPORT

http://Orlund.BaserAmminum.com

KAISER ALUMINUM FABRICATED PROCUCTS, LLC 2425 STEVENS DRIVE RICHLAND. WA 99352

CUSTOMER PO NUMBE	R.	CUSTOME	R PART NUMBER	PRODUCT DESCRIPTION		APPROV
PTC7874		SPIRIT-	371850	5.400 LB/PC .500 LB/-	0 LB 1.312 OD X	85 WALL ESRT
KAISER ORDER NUMBI	R: LINE ITEM:		SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER.
320897	001		10/28/2016	50751-347	6061	0
WEIGHT SHIPPED:	QUANTITY:		B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:
10769.000 LB	1950:000	PCS	005171			13.984 FT
PRECISION TUE 287 WISSAHICK N. WALES, PA 1	ON AVENUE	=		SOLD TO: MUELLER INDUS PRECISION TUBE 8285 TOURNAME STE. 150 MEMPHIS, TN 38	NT DRIVE	

Actual Physical Properties

		_1			2=1	HARDNESS	CONDUCT.	BEND
REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	%Elong in 2	HARDNESS	COMPOCI.	
50751-347	0001	0001	18.7	5.9	27.2	NA N/A	N/A	N/A
	0001	0002	13.4	5.5	27.8	N/A	N/A	N/A
50751-347				5.6	27.1	N/A	N/A	N/A
50751-347	0001	0003	18.3	5.5	26.7	N/A	N/A	N/A
50751-347	0001	0004	10.0		W-100-100	N/A	N/A	N/A
50751-347	0001	0005	18.3	5.9	27.2		N/A	N/A
50751-347	0001	0006	17.7	5.6	27.6	N/A		
50751-347	0001	0007	18.3	5.9	26.8	N/A	N/A	N/A
50751-347	0001	0008	18.6	5.7	25.7	N/A	N/A	N/A
		2009	18.2	5.5	26.5	N/A	N/A	N/A
50751-347	0001	•		5.8	26.0	N/A	N/A	N/A
50751-347	0001	0010	18.6			N/A	N/A	N/A
50751-347	0001	0011	18.5	5.7	28.6	IN / M	47/13	,

Chemical Composition (wt%), Aluminum Remainder

T.TMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot	
Maximum		0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	7	0.05 0.00	.15	
Minimum 276091	0.40	0.00	0.15		0.80	0.04	0.00	0.00	NА . 00	NA .00	.00	.01	.02	16
F76216	. 60	. 30	.21		1.01	.09	.07	.03	.00	.00	.00	.01	.02	

Applicable Requirements:

ASTM-B241-16 NON-STENCILED ASTM-B221-14 ASTM-B345-11 AMS-QQ-A-200/3A TYPE I UNS#A96061 Also conforms to EN 10204 3.1

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS, NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

Plant Serial: 00015006

Kaiser Order Number: 323897

Line Item: 001

TW METALS



CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PROCUCTS, LLC 2425 STEVENS DRIVE RICHLAND, WA 99352

CERTIFICATION

Kalser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kalser's sales acknowledgement form. Any warranty is limited to that shown on Kalser's general terms and conditions of sale. Test reports are on file, subject to examination.

JOSEPH AMES, QUALITY MANAGER

tohks



Plant Serial: 00015006

Kaiser Order Number: 320897

Line Item: 001





CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER, AZ 85226

CUSTOMER PO NUMBE	R:	CUSTOMER	PART NUMBER:	PRODUCT DESCRIPTIO	N:	
M49360917-1		42588		Drawn Seamless	Tube/Pipe	
KAISER ORDER NUMBE	R: LINE ITEM:		SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:
221973	001		12/05/2016	F00229976	6061	Т6
WEIGHT SHIPPED:	QUANTITY:		B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:
239.000 LB	86.000 PC	CS	223667			12.000 FT
SHIP TO:				SOLD TO:		
TW METALS INC 27 ENGLEHARD EXIT 8A OFF NJ MONROE TWP, I	DRIVE TPK	SA		TW METALS INC 760 CONSTITUTI SUITE 204 EXTON, PA 1934	ON DRIVE	

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00229976	0001	1	46.9	40.5	17.5	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum									NA	NA	NA	0.00	0.00
D76008	.59	.26	.22		1.00	.10	.05	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.6250"; Wall: 0.1250"; Round @ AMS4082P AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED. This Product Complies to FAR BAA, DFARS BAA, FAR TAA COMPLIES TO DIN EN 10204 JAN 2005 No Weld Repair. Mercury Free.

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA (DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5 TRADE AGREEMENTS).



Plant Serial: 00023570 Kaiser Order Number: 221973

Line Item: 001





CBOTT IN

CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER, AZ 85226

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms &conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager

Plant Serial: 00023570 Kaiser Order Number: 221973

Line Item: 001

PUFATM

MILL TEST REPORT

Purchaser.: TW MET.	ALS-Cranbu	ry			Certificate	No.: 2016-12-	78					
Contract No.: TWM P	O.No.: M49	354071			Date of Issu	e.: 2016.12.1	7					
Commodity: Stainless	Steel Seaml	ess Tubes	Specifi	cations: A	ASTM A213-	5c/ASME SA	1213	-15/ASTM	A269-13	EAW		
Process: Cold Drawn					Delivery Co	ndition: OD	Polis	hed to 240	Grit			
Steel Grade	Heat	Number	Lot		Dimensi	nne		(Quantity			
Sicci Grade	11011		Numb	er	2111101131	7125		Pieces]	Feet		
TP304/TP304L	YX1	509-583	10-46	5	3/8"x0.035	"x20'		500	10	0,000		
		Che	mical C	ompositi	on by Weigh	t (%)						
Element	С	Mn	P	S	Si	Cr		Ni	Mo	Co		
Requirements	≤0,035	€2.00	≤0.04	5 ≤0.0	30 ≤1,00	18.00-20.00	8.	00-12.00	-	-		
Ladle Analysis	0.025	0.61	0.030	0.003	2 0.34	18.31		8.05	-	-		
Product Analysis	0.021	0.57	0.032	0.002	2 0.33	18.78		8.52	-			
			Med	chanical I	Properties				War and the second			
Test Item	est Item Elongation (% in 2			Ter	nsile Strength Rm	(PSI)			trength (1 p / 0.2%	PSI)		
Requirements		≥35			≥75,000				>30,000			
Test Results		77/79			99,000/100,0				00/46,00			
Test Item		on of Area (%)	Hardness		Cold Bend Test	Flaring Test	Flattening Test		Flange Test	P.M.I. Test		
Requirements		-	HRI	B≤80	-	22%	22% e=		e=0.09		-	•
Test Results				7/79	-	Passed	Passed		-	OK		
Test Item	Eddy C	urrent Test		derwater ire Test	Ultrasonic Test	Intergranu Corrosion		Macroscopic		spection		
Requirements	ASTI	M E 426		-	-	ASTM A26			Appe	earance		
Test Results	Pa	ssed		-	-	OK		OK		OK		

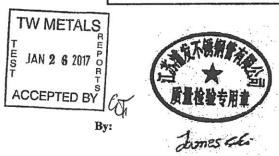
ISO 9001:2008 Certified by CAS 117 16 QU 0053-06 ROS

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA



James Shi / Manager Quality Control Department

We hereby certify that this report is true and correct.

Jiangsu Pufa Stainless Steel Tube Co., Ltd.

No. 99, Xuean Middle Road, Dongchen Town, Rugao City, Jiangsu Province, P.R.China

PUFATM

MILL TEST REPORT

LS-Cranbur	у			Certificate N	lo.: 15-5-23						
				Date of Issue	2015.5.7						
		Specific	cations: A	STM A213-1	4/ASME SA2	13-13	B/ASTM A	269-14 E	4W		
		1		Delivery Co	ndition: OD P	olish	ed to 240 C	Grit			
		Lot		Dimensio	ne		Q	uantity			
Heat	Number	Numb	er	Dimensio	113	F	ieces	F	eet		
YXI	410-664	4-34		3/8" x 0.065	' x 20'		250	5,	000		
	Che	mical C	ompositio	on by Weight	: (%)						
С	Mn	P	S	Si	Cr		Ni	Mo	Co		
≤0.035	≤2.00	≤0.04	5 ≤0.0	30 ≤1.00	18.00-20.00	8.0	0-12.00	-	-		
0.010	0.63	0.028	0.00	0.46	18.33		8.05	-	-		
0.019	0.79	0.033	0.00	0.51	18.52		8.50	-			
		Me	chanical I	Properties							
Elongation (% in 2")				sile Strength	(PSI)				PSI)		
	≥35			≥75,000							
63/64									P.M.I.		
Reduction of Area		Ha	rdness	Cold Bend Test	Test	FI	0	Test	Test		
-	-	HR	B≤80	-	30%						
		7	7/79	-	Passed]	Passed	-	OK		
Eddy C	urrent Test			Ultrasonic Test			Macro	scopic In	spection		
AST	M E 426		-	-	ASTM A26	2 E	End Cut	App	earance		
			-	-	OK		OK		OK		
	O.No.: M49 Steel Seamle Heat YX14 C <0.035 0.010 0.019 Elong Reducti Z Eddy C AST	C Mn ≤0.035 ≤2.00 0.010 0.63 0.019 0.79 Elongation (% in 2') ≥35 63/64 Reduction of Area Z (%)	O.No.: M49329273 Steel Seamless Tubes Specific Heat Number Lot Number YX1410-664 4-34 Chemical C C Mn P ≤0.035 ≤2.00 ≤0.04 0.010 0.63 0.028 0.019 0.79 0.033 Me Elongation (% in 2") ≥35 63/64 Reduction of Area Ha Z (%) HR - HR - Air Ur Press ASTM E 426	O.No.: M49329273 Steel Seamless Tubes	O.No.: M49329273 Steel Seamless Tubes Specifications: ASTM A213-1	Date of Issue.: 2015.5.7					

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA



James Shi / Manager

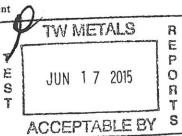
By:

We hereby certify that this report is true and correct.

Quality Control Department

Shanghai Pufa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China



Steel/Tube

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No. du certificat: Inspection No.: Prüf-Nr.: 41-970599/001/P Dokument-Nr.: Document No.: ABNAHMEPRÜFZEUGNIS EN 10204-3.1 Tel.: +49.5254.81-0 Fax: +49.5254.13666 INSPECTION CERTIFICATE EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1

Benteler Steel/Tube GmbH

33043 Paderborn

4

Deutschland

46004514 TW M49355846 No. de commande du client: Purchase Order No.: Kunden-Bestell-Nr.: No. du document: Benteler Steel/Tube GmbH - Postfach 1340 - 33043 Paderborn - Deutschland

IDIN EN ISO 9001, ISO/TS-16949 CERTIFIED BY TUEV NORD CERT] [PED 2014/68/EU CERTIFIED BY TUEV NORD SYSTEMS] Warmrohrwerk/Zieherei Herstellerzeichen: Manufacturer: Producteur: Hersteller: 1627804

X Stamp of the Inspection representative: Stempel des Abnahmebeauftragten: Marque du producteur: Poinçon du contrôleur: Manufacturer's brand: 4176284

No. de commande Benteler:

Versandanzeigen-Nr.:

Dispatch Note No.:

Benteler Auftrags-Nr.:

The Aboretum, Suite 204

TW Metals

EN 10204:2005-01

760 Constitution Drive

EXTON PA 19341 USA

Benteler Order No.:

ELECTRIC FURNACE Procédé d'élaboration de l'acier: FOUR ELECTRIQUE ELEKTROSTAHL Stahlerschmelzungsverfahren: Steelmaking process:

NAHTLOSE STAHLROHRE SEAMLESS STEEL TUBES

Produkt: Product:

Lieferbedingungen:

ferms of delivery:

No. d'avis d'expédition:

AMS-T-6736B Type 1, ASTM-A 519-2006, MIL-T-6736B Type 1, AMS6360 Rev. M, AMS 2301K TUBES D' ACIER SANS SOUDURE Produit:

straightness acc. to customer request, AMS 2253E-83, Aircraft Type, Seamless, Cold Finished Conditions de livraison:

Maße - Toleranzen: Dimensions-tolerances:

GRADE 4130 Dimensions-tolérances: Stahlsorte:

Lieferzustand: Nuance d'acier: Steel grade:

Condition N

Delivery condition:

État de livraison:

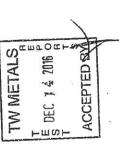
FSD: BENTELER AMS6360M-AMS-T-6736 B 1-MIL-T-6736 B 1-AMS 2301K 4130 Condition N HEAT-NO. Produktkennzeichnung:

CD AQ S DIMENSIONS WA GERMANY

Marquage du produit:

Product marking:

AEZ = Aztinterbeschritung, Etching Ink merking, Gravure a Fencie . FK = Farbstanzelchnung, color marking, marquage par couleur . FS = Farbschaltonierung, paint stencilling, marquage par peinture. FSD = Farbstrahldrucker, Color jet printer, imprimante à jet d'encre de couleur . LK = Laserkenrzeichnung, Laser marking, Marquage laser . PKE = Etkettenkenrzeichnung, 1nk jet spray marking, marquage sur étiquette . PS = Prégestempel, die stamp, marquage par pointonraeichnung, 1nk jet spray marking, Imprimante à jet



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Benteler Steel/Tut Postfach 13 40 33043 Paderborn Deutschland Tel.: +49.5254.E	Benteler Steel/Tube GmbH Postfach 13 40 33043 Paderborn Deutschland Telt: +49.5254.81-0 Fax:	Bentreler Steel/Tube GmbH Postfach 13 40 39043 Paderborn Deutschland Tel:: +49.5254.81-0 Fax: +49.5254.13666	4.13666	*						8		BENTELER Steel/Tube	LER 🛡
ABNA INSPECT CERTIFIC	HMEPRION CERTIF	ABNAHMEPRÜFZEUGNIS EN 10204-3.1 certificat de reception en 10204-3.1	S EN 102 4-3.1 24-3.1	204-3.		Dokument-Nr.: Document No.: No. du document:	الار: الد:	41-9705	41-970599/001/P		Prūf-Nr.: Inspection No.: No. du certificat:		Blatt: 2/ 4 Page: Page:
Pos.	Stück Number Nombre	Maße Dimensions Dimensions			feet		Gesamtlänge Length total Longueur totale feet	ge Gewicht Weight ife Poids lbs	ŧ	Schmelzen-Nr. Heat No. No. de coulée	Prüfdruck Test pressure Pression d'épreuve	Rohr-NrGruppe Tube number group Série de no. des tubes	Vielfachlängen Muttiple lengths Longueurs multiples
0003	62	0.500" O.D 20 FT - 24), * 0.049"	49 " WT			1588,81	388	25	251772			
Schme	Izenanaly	Schmelzenanalyse [%] / Heat analysis [%] / Analyse sur coulée [%]	nalysis [%] /	/ Analyse s	ur coulée l	[%]							
Pos.	Schmelzen-Nr. Heat No. No. de coulée	en-Nr. C	S		MN	a.	S	85	MO	Z	8	,	
0003 Produk	251772	0003 251772 0,320 0,230 0,52 (Occlubrationalizes [%] / Product analysis [%] / Analyses sur produit [%]	20 0,	0,230	0,52	0,008	0,002	68'0	0,19	0,11	0,13	,	
Pos.	Schmelzen-Nr.	ren-Nr.											
Item Poste	Heat No. No. de coulée	ပ nlée	ত		Z	۵	S	CR	MO	Z	3		
0003 Priifer	251772	Test result	0,320 0,		0,52	0,010	0,002	0,92	0,20	0,11	0,14		*
Die R	ohre wur	Die Rohre wurden zerstörungsfrei geprüft:	gsfrei gep	rüft:		ET-test: ac	c. to ASTM	-A 450; E	T - Test me	sthod: acc. 1	ET-test: acc, to ASTM-A 450; ET - Test method: acc. to ASTM-E 309; for imperfections;	or imperfections;	PASSED
The tu	bes are non	The tubes are non destructive tested: Les tubes ont passé un essai non destructif:	ed: lestructif:			ET-test: ET with rota Notch depth: 0,30 m width (max. 50 mm)	with rotatil h: 0,30 mm ;. 50 mm)	ng pancak ı; notch w	e coils; ac	cording to E notch depth;	ET-test: ET with rotating pancake coils; according to EN 10246-3; imperfections; Notch depth: 0,30 mm; notch width $< = $ notch depth; notch length min. 2 x transducer width (max. 50 mm)	fections; . 2 x transducer	
Auge Visual Exame	Augensichtkontrolle: Visual inspection: Examen visuel:	trolle:		PASSED	G	Materialverwechslun Material conformity test: Vérification de la nuance:	Materialiverwechslungsprüfung: Material conformity test: Vérification de la nuance:	sprüfung:	7d	PASSED	Maßkontrolle: Dimensions examination: Vérification des dimensions:	rtion: ensions:	PASSED

Ergebnisse der mechanischen Prüfung / Results of mechanical testing / Résultats des essals mécaniques

Die Probennahme erfolgte an Vielfachlängen. The sampling was carried out on multiple lengths. L'echantillonage etait realise aux longueurs multiples.

Benteler Steel/Tube GmbH Postfach 13 40

33043 Paderborn

Deutschland Tel.: +49.5254.81-0 Fax: +49.5254.13666

3/ Blatt: Page: Page: No. du certificat: Inspection No.: Prüf-Nr.: 41-970599/001/P Dokument-Nr.: No. du document: ABNAHMEPRÜFZEUGNIS EN 10204-3.1 INSPECTION CERTIFICATE EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1

BENTELER®

Steel/Tube

Zugversuch längs bei RT, Vollprobe / Tensile test longitudinal at RT, Full section test specimen / Essai de traction longitudinale à TA, Eprouvette a section complete

Pos.	Proben-Nr.	Schmelzen-Nr.	Probenabmes	ssung	Probenabmessung Streckgrenze	Zugfestigkeit	Dehnung	
Item	Specimen No.	Heat No.	Specimen dimer	limensions	Yield strength	Tensile strength	Elongation	
Poste	No. de l'éprouv. No. de coulée	No, de coulée	Dimensions de l'	'éprouv.	de l'éprouv. Limite élastique	Résistance à la traction Allongement	Allongement	
Anforderungen	ungen				Rp 0,2 %	Rm.	A2"	1. Formel
Requirements	its		E		KSI	KSI	%	1. Formula
Exigences					MIN 75	MIN 95	MIN 12.00	1. Formule
0003	000001	251772	12,72 X	1,24	66	128	18,00	
0003	000002	251772		1,24	101	129	18,00	

Randentkohlung / Surface decarburization / Décarburation superficielle

Pos. / Item / Poste: 0003

decarburization outside and inside max. 0.012 in, partial decarburization outside and inside max. 0,305 mm, without total decarburization; partial decarb. out. max.: 0,229 mm; partial decarb. ins. max.: 0,229 mm acc. to AMS-6360, partial decarburization outside max. 0.009 in, partial decarburization inside max. 0.009 in, partial

Vermerk / Remark / Remarque

Pos. / Item / Poste: 0003

Certificate remarks: The steel grade corresponds to MIL-T-6736B, AMS 6360M, material free from mercury contamination, FAR BAA: 52.225-1 CANNOT COMPLY, DFARS BAA: 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, No weld repair has been carried out, Country of origin of the material and heat: Germany, Aircraft quality steel acc. to AMS 2301K / Semi finished product examination: see appendix, page 1 of 1

Pos. / Item / Poste: 0003

Macroscopic examination: acc. to ASTM-E 381

Pos. / Item / Poste: 0003

Magnetic particle inspec.: acc. to AMS 2301K/ASTM-E 1444, on prematerial

Pos. / Item / Poste: 0003

Grain size: acc. to ASTM-E 112; Grain size and finer: 5; Grain size: Longitudinal structure micrography, On prematerial

Verkäufer(in) / Sales Personnel / Personne chargée: Mr Schwarz, Tel.: 05254 81-204311, Fax: 204391

Benteler Steel/Tube GmbH Postfach 13 40 33043 Paderborn Deutschland Tel.: +49.5254.81-0 Fax: +49.5254.13666

Dokument-Nr.: Document No.: No. du document: ABNAHMEPRÜFZEUGNIS EN 10204-3.1 INSPECTION CERTIFICATE EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1

41-970599/001/P

Prūf-Nr.: Inspection No.: No. du certificat:

BENTELER 🛡 Steel/Tube 4

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Abnahmebeauftragter

Paderborn Schloß Neuhaus, 07.11.2016, TEL.: 05254.81-201766 FAX: 05254.81-201752

Inspection representative Contrôleur

i.A. THOMAS GOLLAN / ICK

Es wird bestätigt, daß die gelieferten Ezeugnisse den techn. Lieferbedingungen des Auftrages entsprechen. Dieses Dokument wurde mittels EDV erstellt und ist ohne Unterschrift rechtsgültig. We certify that the supplied products comply with the order specification. This document was prepared by means of electronic data processing and is valid without signature. Nous attestons que les produits livrés sont conformes aux stipulations de la commande. Ce document a été établi par traitement électronique de l'information et est valide sans signature.

Benteler Steel/Tube GmbH

Residenzstraße 1 33104 Paderborn

Germany Tel.:49.5254.81-0 Fax: 49.5254.13666

Inspection Certificate EN 10204.3.1 / appendix Abnahmeprüfzeugnis EN 10204-3.1 / Anhang

Certificat de réception EN 10204-3.1 / appendice

Dokument-Nr.

Document No.: No. de document:

41-970599/001/P

1 of 1 Von

BENTELER 🛡

Steel/Tube

Blatt:

Page:

Halbzeuguntersuchung: Stahlsorte 4130 / Semi finished product examination: grade 4130 / Produit semi-fini: nuance 4130

					-
test cdure	max. C 2	C 2			8
Macrostructure test Essai de macrostructure (ASTM-E 381)	max. R 1	1			
Ma	max. S 2	\$2			
Magnetpulverprüfung Magnetic particle inspection Essai à la poudre magnétique (AMS 2301K / ASTM-E 1444)	S max. 0,25	0,020			
Magnetto Magnetic parl Essai à la pou (AMS 2301K /	F max. 0,34	0,020			J
Häribarkeit (min. Anforderungen) Hardenability (min. requirements) Trempabilité (exigence min.) (ASTM-A 255)	J(8/16") min. 28 HRC	31		,	p*
Harbarkeit (min. Anford Hardenability (min. requ Trempabilité (exgenca (ASTM-A 255)	J(5/16") min. 35 HRC	14	Inside 0,000 mm		
Komgröße Grain size Grosseur de grain (ASTM-E 112)	min. 5	6	Outside 0,000 mm		.
Position Item Poste		003			
Schmelzen-Nr. Heat No. Coulée No.	,	251772	Decarburization Depth		

Der Stahl ist frei von Quecksilberverunreinigungen. / The steel is free of mercury contamination. / L'acier est libre des contaminations de mercure.

Paderborn Schloß Neuhaus, 07.11.2016 Tel.: (0)5254.81-201760 Fax: (0)5254.81-201752

**E/Tube Gmb Inspection representative Contróleur Abnahmebeauftragter

Thomas Gollan

PRODUCT CERTIFICATION

SALES ORDER - LINE / RLS

143275 - 1 / 3

212 Industrial Park Road, Eupora, Mississippi 39744 Fax: (662) 258-2075 Phone: (662) 258-2420

> WORK ORDER A43275 HEAT NUMBER MM16101444 MELT SOURCE Nucor Steel - USA Melt/Mfg

SHIP TO

TW Metals 27 Englehard Drive Monroe Township, NJ 08831 USA



CERT DATE CERT ID / REV LADING NO QUANTITY **CUSTOMER PART** CUSTOMER P.O. 08/15/2016 01 00087888 2,697.0 ft 33364 M 49354259 H10001200J002 PART DESCRIPTION TW METALS OD: 1.0000" Max: 1.0050" Min: 0.9950" Wall: 0.1200" Max: 0.1320" Min: 0.1080" Length: 20.00'/ 24.00' Lgth Tol: RANDOM CUT LENGTH AUG 2 2 2016 Lgth: 20.00' / 24.00' Spec: Mil-T 6736B Seamless Aircraft ACCEPTED Grade: 4130 Finish: Cond N CERTIFICATION REQUIREMENTS This material was Eddy Current tested and conforms to the requirements of ASTM A-450. The Grain size is determined and reported by the raw material supplier in accordance to ASTM E-112. This raw material was magnetic particle inspected by the raw material supplier in accordance to AMS 2640J and/or ASTM E-1444, and rated as Frequency, and Severity to AMS 2301, latest revision. Yield is determined by using the 0.2% offset method. Chemical Analysis Al Sn Mo S Si Cu .007 Mn P 002 023 .0024 .13 1.04 218 23 005 008 53 **Physical Properties** Grain Size Severity Freq. .000 .000 Mechanical Properties STD-DEV **AVERAGE** LOW HIGH #TESTS UNITS TEST 107133 1242 105700 107900 3 Psi 4521 Tensile 97267 92100 100500 3 Psi Yield 20 21 21 3 % Elongation RESULT TEST Pass Decarb/OD Pass Total ID/OD decarb STD-DEV **AVERAGE** LOW HIGH #TESTS UNITS TEST 21 21 22 3 Rc Rockwell C Rb Rockwell B

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Eupora in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube. Product free from hazardous materials.

Date Printed: 08/15/2016

PLY 100 THE TOPE CO USA[®] 212 Industrial Park Road, Eupora, Mississippi 39744 Phone: (662) 258-2420 Fax: (662) 258-2075

PRODUCT CERTIFICATION

SALES ORDER - LINE / RLS 143275 - 1 / 3

WORK ORDER A43275 HEAT NUMBER MM16101444

MELT SOURCE Nucor Steel - USA Melt/Mfg

SHIP TO

TW Metals 27 Englehard Drive Monroe Township, NJ 08831 USA



 CUSTOMER P.O.
 CUSTOMER PART
 QUANTITY
 LADING NO
 CERT ID / REV
 CERT DATE

 M 49354259
 33364
 2,697.0 ft
 00087888
 01
 08/15/2016

PART DESCRIPTION

H10001200J002

Additional Specification(s)

AMS-T6736 B, AMS 6360M

This test report data is for the heat Chemistry Stated above. Drawn in the USA

End of Certification

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Eupora in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube. Product free from hazardous materials.

Quality Assurance

Date Printed: 08/15/2016

MATERIAL: M 4130 DATE:	NT 7-7	2-2	520W; 049	⁷ PC) / BATCH NO[035245	1410
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	10.20°	\$ \$		THICKNE SHEET SI	SS ORDERED: _ SS RECEIVED: _ ZE ORDERED: _ ZE RECEIVED: _	,500×10	246
DESCRIPTION	(Ch	CR eck (N)		C	OMMENTS		
SURFACE DAMAGE	Υ	N					
CORRECT FINISH	0	N					
CORROSION	Υ	0				1021000	
CORRECT GRAIN DIRECTION	0	N					
CORRECT MATERIAL	0	N					
CORRECT THICKNESS	(A)	N					
PHOTO REQUIRED	Υ	0					
CORRECT MATERIAL	0	N					
CORRECT REF # TO LINK CERT	0	N					
RRECT MATERIAL IDENTFICATION		N	25	1772			
CORRECT M# ON THE MATERIAL	8	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N					
CUT SAMPLE PIEC					HARDNESS CI	HECK.	
	F	REC	ORD RESULTS	BELOW			
TYPE OF MATERIAL			HRC	HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE							

QC 18 INSPECTION	10 pt	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	38 9-89	SIGNED OFF BY:
DATE:	FEB 2 2 2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL: <u>13047</u> DATE:				PC) / BATCH NO.: <u>f</u>	035245	/M13684
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	Ye 20 20	' f		THICKNES SHEET SI	SS ORDERED: _ SS RECEIVED: _ ZE ORDERED: _ ZE RECEIVED: _	,375 X .	065
DESCRIPTION	(Ch	CR eck		C	OMMENTS		
SURFACE DAMAGE	Υ	(N)					
CORRECT FINISH	(8)	N					
CORROSION	Y	W					
CORRECT GRAIN DIRECTION	8	N					
CORRECT MATERIAL	(8)	Ν					
CORRECT THICKNESS	(4)	N					
PHOTO REQUIRED	Y	Ŵ					
CORRECT MATERIAL	8	N					
CORRECT REF # TO LINK CERT	8	N			,		
CORRECT MATERIAL IDENTFICATION		N	YX/	41066	9		
CORRECT M# ON THE MATERIAL	(8)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N	10				
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N					
CUT SAMPLE PIECI					HARDNESS C	HECK.	
	F	REC	ORD RESULT				
			HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE		_					
HARDNESS / DUROMETER REA			L				
	<u>te</u>	esters	located in the G	uality Office			

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ENGINEERING SIGNOFF (if required)

SIGNED OFF BY:

DATE:

FEB 2 2 2017

QC 18 INSPECTION

INSPECTED BY:

DATE:

MATERIAL: <u>M 36471</u> DATE:17	2012 - Z	375 ·2	w.0.35	PC	/ BATCH NO.F	2035245/	<u> </u> <u>14 1</u> 36840
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	0000	f		THICKNES	SS RECEIVED:	.375 Y.C .375 Y.C B	35
DESCRIPTION	1	CR eck N)		C	OMMENTS		
SURFACE DAMAGE	Υ	0					
CORRECT FINISH	(8)	N					
CORROSION	Υ	N					
CORRECT GRAIN DIRECTION	8	N					
CORRECT MATERIAL	8	N					
CORRECT THICKNESS	8	N					
PHOTO REQUIRED	Υ	0					
CORRECT MATERIAL	8	N					
CORRECT REF # TO LINK CERT	8	N			•		
CORRECT MATERIAL IDENTFICATION	8	N	YX	150958	3		
CORRECT M# ON THE MATERIAL	(8)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N					
						LIEO!	
CUT SAMPLE PIEC			TERIAL AND F ORD RESULT:		HARDNESS C	HECK.	
			HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER REA	ADIN	G					
			located in the Q	uality Office	•		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ENGINEERING SIGNOFF (if required)

SIGNED OFF BY:

DATE:

38

9-89

FEB 2 2 2017

QC 18 INSPECTION

INSPECTED BY:

DATE:

MATERIAL <u>M6061</u> DATE: 17	-16+0 -2-2	2	125 PC) / BATCH NO.:	PO 352	45/1 <u>4</u> 136846
MATERIAL CERT REC'D: Yanguantity RECEIVED: 25 QUANTITY INSPECTED: 25 QUANTITY REJECTED: 26	es 1. f 0		THICKNES SHEET SI		0,62	54.125 54.125
DESCRIPTION	NCR (Check Y/N)		C	OMMENTS		
SURFACE DAMAGE	YN					
CORRECT FINISH	(V) N				4-4-	
CORROSION	YW		-			
CORRECT GRAIN DIRECTION	Ø N					
CORRECT MATERIAL	(V) N				*	
CORRECT THICKNESS	(Y) N		300			
PHOTO REQUIRED	YO				A THE THE PARTY OF	
CORRECT MATERIAL	Ø N					
CORRECT REF # TO LINK CERT	Ø N					
ORRECT MATERIAL IDENTFICATION	Ø N	FOO	229976	0001		
CORRECT M# ON THE MATERIAL	Ø N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	YN					
DOES THIS REQUIRE AN EXTRUSION REPORT	YN					
CUT SAMPLE PIEC				HARDNESS C	CHECK.	
	REC	ORD RESULT	S BELOW		,	
		HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL						1
SIZE OF TEST SAMPLE						1
HARDNESS / DUROMETER REA	ADING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	9-89	SIGNED OFF BY:
DATE:	-FR 7 7 2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL: <u>19 606</u> DATE: 17				946
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	18	P	THICKNESS ORDERED: 375 X 0.58 THICKNESS RECEIVED: 375 X 0.3 SHEET SIZE ORDERED: 57 SHEET SIZE RECEIVED: 57	8 8
DESCRIPTION	,	CR eck N)	COMMENTS	
SURFACE DAMAGE	Υ	AP		
CORRECT FINISH	0	N		
CORROSION	Υ	0		
CORRECT GRAIN DIRECTION	8	N		
CORRECT MATERIAL	Q	N		
CORRECT THICKNESS	8	N		
PHOTO REQUIRED	Υ	0		
CORRECT MATERIAL	0	N		
CORRECT REF # TO LINK CERT	Y	N		
ORRECT MATERIAL IDENTFICATION	_	N	1180968	
CORRECT M# ON THE MATERIAL	(A)	N		

CUT SAMPLE PIECE OF MAT			HARDNESS C	CHECK.
RECO	ORD RESULT	S BELOW		
	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING	1.11			

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	36 9-89	SIGNED OFF BY:
DATE:	FEB 2 2 2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Ν

Ν

DOES THIS MATERIAL REQUIRE

ENGINEERING SIGN OFF DOES THIS REQUIRE AN EXTRUSION REPORT

MATERIAL: <u>113697</u> DATE:17	70 -2	-2	0 w 1049	PO	/ BATCH NO.∰	035245,	/M 136846
MATERIAL CERT REC'D:	25					17508	
QUANTITY RECEIVED:	30'	f		THICKNES	S RECEIVED:	,750 X	-049
QUANTITY INSPECTED:	20	P		SHEET SIZ	ZE ORDERED:	Co	
QUANTITY REJECTED:	18	<u> </u>			ZE RECEIVED:		
QUANTITI NEGLOTES.	<i>N</i>						
DESCRIPTION	,	eck N)		С	OMMENTS		
SURFACE DAMAGE	Y	N					
CORRECT FINISH	8	N					
CORROSION	Y	(1)					
CORRECT GRAIN DIRECTION	8	N					
CORRECT MATERIAL	8	N					
CORRECT THICKNESS	8	N					
PHOTO REQUIRED	Y	8					
CORRECT MATERIAL	8	N					
CORRECT REF # TO LINK CERT	0	N	57	CA 17.07			
CORRECT MATERIAL IDENTFICATION		N	YX/	50 1783			
CORRECT M# ON THE MATERIAL	(1)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N					
						NEOK	
CUT SAMPLE PIEC			ORD RESULTS	SBELOW			
			HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER REA				0			
QC 18 INSPECTION	<u>t</u>	esters	located in the Q		NGINEERING	SIGNOEF (if r	required)

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SIGNED OFF BY:

DATE:

FEB 2 2 2017

QC 18 INSPECTION

INSPECTED BY:

DATE:

MATERIAL: <u>M 3647</u> DATE:17-	RO	.50	2 w,049	PO	/ ватсн no.: <u>f</u>	8 35245	/ <u>M 1</u> 3684
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	0'	f	<u> </u>	THICKNES SHEET SI	SS ORDERED: _ SS RECEIVED: _ ZE ORDERED: _ ZE RECEIVED: _	,500 X,	048
DESCRIPTION		R eck N)		· C	OMMENTS		
SURFACE DAMAGE	Υ	D					
CORRECT FINISH	0	Ň					
CORROSION	Y	0					
CORRECT GRAIN DIRECTION	(8)	Ν					
CORRECT MATERIAL	8	N					
CORRECT THICKNESS	8	Ν					
PHOTO REQUIRED	Y	0					
CORRECT MATERIAL	8	N					
CORRECT REF # TO LINK CERT	Ø	N		/			
CORRECT MATERIAL IDENTFICATION		N	Y X 15	06713	<u></u>		
CORRECT M# ON THE MATERIAL	(Y)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N					
						LIFOX	
CUT SAMPLE PIECI			ORD RESULTS	BELOW			
			HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE					-		
HARDNESS / DUROMETER REA	ADIN	G					

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ENGINEERING SIGNOFF (if required)

SIGNED OFF BY:

DATE:

38

FEB 2 2 2017

QC 18 INSPECTION

INSPECTED BY:

DATE:

MATERIAL: <u>14413</u> 0 DATE: <u>17</u>	DN 2-2	T\$1	PO / BATCH NO. PO35245/1413689				
MATERIAL CERT REC'D: You QUANTITY RECEIVED: 2 QUANTITY INSPECTED: 2 QUANTITY REJECTED:	0 -	f	,	THICKNES	SS ORDERED: _ SS RECEIVED: _ ZE ORDERED: _ ZE RECEIVED: _	1,000 X	,120
DESCRIPTION	NC (Ch Y/	eck		C	OMMENTS		
SURFACE DAMAGE		N					
CORRECT FINISH	(Y)					* ***	
CORROSION	Y	N)					
CORRECT GRAIN DIRECTION	8	N					
CORRECT MATERIAL	8	N					
CORRECT THICKNESS	Y	N					
PHOTO REQUIRED	Υ	N					
CORRECT MATERIAL	(Y)	N	***********				
CORRECT REF # TO LINK CERT	8	Ν					
CORRECT MATERIAL IDENTFICATION	(X)	N	MM,	610 149	19		
CORRECT M# ON THE MATERIAL	(Y)	Ν					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N	SAAN PARAMETER CONTRACTOR				
DOES THIS REQUIRE AN				W 41		*	
EXTRUSION REPORT	Υ	Ν					
CUT SAMPLE PIECE					HARDNESS CI	HECK.	
	F	REC	ORD RESULTS				
			HRC	HRB	DUR A	DUR D	172,000,00
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE		_					
HARDNESS / DUROMETER REA							
	te	sters	located in the Qu	ality Office			

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	0AS 38	SIGNED OFF BY:
DATE:	FEB 2 2 2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35245

Purchase Order Date 2/8/2017 PO Print Date 2/9/2017

Page Number 1 of 5

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014 VU-TWM001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

FEB 0 8 2017

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

585 768 5600

Buyer

Chantal Lavoie

Customer POID Customer Tax#

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Ship Via: Ship Acct: YRC COLLECT

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M304TR0.500W.035	304 RD Tube .500 x .035W	2/15/2017	40.00	\$1.50	\$60.00
			Yes	f		
			2/15/2017			
1	MATERIAL AIGUAGAGA	CEAN FREE POUR PRINTER				

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

2 M304TR0.500W.049

304 RD Tube .500 x .049W

2/15/2017

2/15/2017

Yes

20.00 f Line Total:

\$60.00

\$2.80 \$56.00

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

3 M304TR0.750W.049

304 RD Tube .750 x .049W

2/15/2017

80.00 f Line Total:

\$56.00

Yes 2/15/2017

\$2.10

\$168.00

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

PH-62-14

Note:



Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35245

Purchase Order Date 2/8/2017 PO Print Date 2/9/2017

Page Number 2 of 5

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014 US

VU-TWM001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

585 768 5600

Ship To Contact

Ship To Phone Ship Via:

Ship Acct:

YRC COLLECT

Buyer

Chantal Lavoie

Customer POID

Customer Tax# Terms

10127-2607 Net 30

Currency

USD

FOB

FCA - (Free Carrier)

M6061T6T0.375W.058

6061-T6 RD Tube .375

2/15/2017

48.00

f

Line Total:

\$168.00

x.058W

\$2.15

\$103.20

Yes

2/15/2017

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241

M6061T6T0.625W.125

6061-T6 RD Tube 0.625

2/15/2017

24.00

f

Line Total:

\$103.20

X.125W

Yes

\$5.15

\$123.60

2/15/2017 MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING

AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR

ASTM B241

Line Total:

\$123.60

Note:



Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35245

Purchase Order Date 2/8/2017 PO Print Date 2/9/2017

Page Number 3 of 5

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014 US VU-TWM001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Buyer Chantal Lavoie **Contact Name** Vendor Phone 585 768 5600 **Customer POID** Customer Tax# 10127-2607 Net 30 **Ship To Contact Terms** Currency USD **Ship To Phone** Ship Via: YRC COLLECT **FOB** FCA - (Free Carrier) Ship Acct: \$75.00 2/15/2017 20.00 \$3.75 M304TR0.375W.035 304 TUBING .375 x .035w Yes f 2/15/2017 MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269 Line Total: \$75.00

M304TR0.375W.065 304 RD Tube .375 x .065W 2/15/2017 Yes 2/15/2017 20.00 f

\$1.86 \$37.21

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

M4130NT0.500W.049

4130 RD Tube .500 x.049W

2/15/2017

Yes 2/15/2017

20.00

Line Total: \$37.21

f

\$3.88

\$77.67

MATERIAL: AISI 4130N SEAMLESS STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361 6362/6373/6374

Note:

SPT-0214.



Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35245

Purchase Order Date 2/8/2017 PO Print Date 2/9/2017

Page Number 4 of 5

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014 US

VU-TWM001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

585 768 5600

Buyer **Customer POID** Chantal Lavoie

Ship To Contact

Ship To Phone

Ship Via: Ship Acct: YRC COLLECT

Customer Tax # **Terms**

10127-2607 Net 30

Currency

USD

FOB

FCA - (Free Carrier)

M4130NT1.000W.120

4130 RD Tube 1.00 x

2/15/2017

20.00

\$77.67

.120wall

Yes

2/15/2017

\$2.89

\$57.72

MATERIAL: AISI 4130N SEAMLESS STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361

6362/6373/6374

Line Total:

71401-45

PROCUREMENT

2/15/2017

Line Total:

\$57.72

QUALITY CLAUSES

No

\$0.00

\$0.00

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retension of quality documents

2/15/2017

Note:



Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35245

Purchase Order Date 2/8/2017 PO Print Date 2/9/2017

Page Number 5 of 5

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014 VU-TWM001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

585 768 5600

YRC COLLECT

Buyer

Chantal Lavoie

08 3000

Customer Tax #

Customer POID

10127-2607

Terms Currency Net 30 USD

FOB

FCA - (Free Carrier)

Ship Via: Ship Acct:

FU

Line Total:

\$0.00

PO Total:

\$758.40

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.